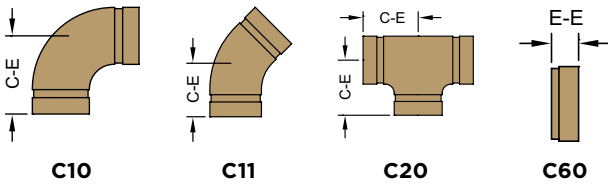


GROOVED-END COPPER FITTINGS

- C10 90° Elbow
- C11 45° Elbow
- C20 Tee
- C21 Reducing Tee
- C26 Reducing Tee (GR x Cup)
- C50 Concentric Reducer
- C52 Concentric Reducer (GR x Cup)
- C55 Transition Adapter (IPS x CTS)
- C55T Transition Adapter (IPS/FT X CTS/GR)
- C60 End Cap



Job Name:	
Job Location:	
Engineer:	
Contractor:	
Tag:	
PO#:	
Rep:	
Wholesale Dist.:	



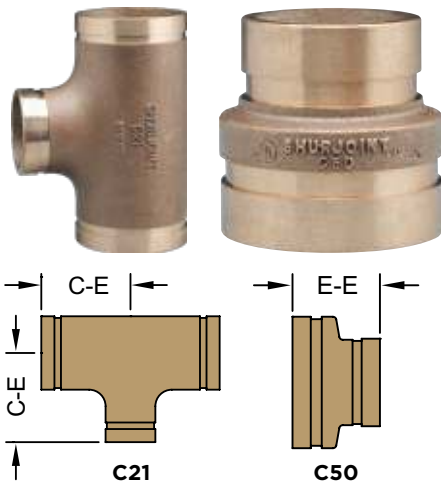
Copper grooved end fittings are produced from Lead-free bronze alloy, C83470, per ASTM B584. Materials are in compliance with NSF/ANSI 61 and NSF/ANSI 372 for potable water service applications. Shurjoint fittings are designed for use with Shurjoint CTS couplings, components and ASTM B-88 roll grooved copper tubing type K, L, M and ASTM B-306 DWV.

DIMENSIONS

NOMINAL SIZE	PIPE O.D.	C10 90° ELBOW		C11 45° ELBOW		C20 TEE		C60 CAP	
		C-E	WEIGHT	C-E	WEIGHT	C-E	WEIGHT	E-E	WEIGHT
in	in	in	lb	in	lb	in	lb	in	lb
mm	mm	mm	kg	mm	kg	mm	kg	mm	kg
2	2.125	2.91	1.5	2.19	1.7	2.44	1.8	0.96	0.6
50	54.0	74	0.7	56	0.8	62	0.8	24	0.3
2-1/2	2.625	3.31	2.0	2.31	2.1	3.20	2.9	0.96	0.9
65	66.7	84	0.9	59	1.0	81	1.3	24	0.4
3	3.125	3.81	2.6	2.59	3.2	3.50	3.7	0.96	1.2
80	79.4	97	1.2	66	1.4	89	1.7	24	0.6
4	4.125	4.75	5.5	3.35	5.5	4.25	7.3	0.96	2.1
100	104.8	121	2.5	85	2.5	108	3.3	24	1.0
5	5.125	5.94	11.5	3.25	7.9	5.94	17.2	0.96	3.5
125	130.2	151	5.2	83	3.6	151	7.8	24	1.6
6	6.125	6.94	16.5	3.63	10.2	6.94	26.2	0.96	4.4
150	155.6	176	7.5	92	4.6	176	11.9	24	2.0

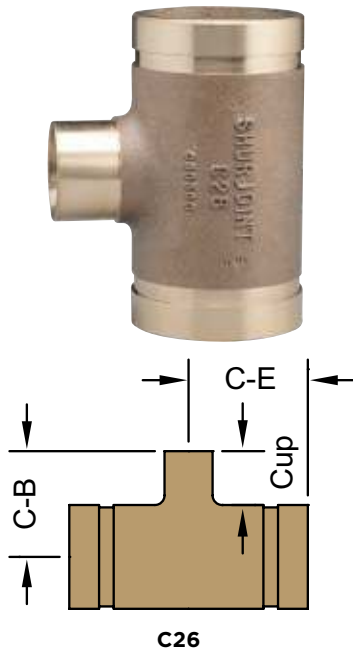
DIMENSIONS

NOMINAL SIZE	PIPE O.D.	C21 REDUCING TEE		C50 CONCENTRIC REDUCER	
		C-E	WEIGHT	E-E	WEIGHT
in	in	in	lb	in	lb
mm	mm	mm	kg	mm	kg
2-1/2 x 2	2.625 x 2.125	3.20	3.6	2.50	1.2
65 x 50	66.7 x 54.0	81	1.6	64	0.6
3 x 2	3.125 x 2.125	3.50	4.8	2.50	1.5
80 x 50	79.4 x 54.0	89	2.2	64	0.7
3 x 2-1/2	3.125 x 2.625	3.50	4.8	2.50	1.5
80 x 65	79.4 x 66.7	89	2.2	64	0.7
4 x 2	4.125 x 2.125	4.25	7.7	3.00	2.5
100 x 50	104.8 x 54.0	108	3.5	76	1.2
4 x 2-1/2	4.125 x 2.625	4.25	7.9	3.00	2.6
100 x 65	104.8 x 66.7	108	3.6	76	1.2
4 x 3	4.125 x 3.125	4.25	8.1	3.00	2.5
100 x 80	104.8 x 79.4	108	3.7	76	1.1
5 x 3	5.125 x 3.125	5.94	16.7	3.50	4.4
125 x 80	130.2 x 79.4	151	7.6	89	2.0
5 x 4	5.125 x 4.125	5.94	17.2	3.50	4.4
125 x 100	130.2 x 104.8	151	7.8	89	2.0
6 x 2-1/2	6.125 x 2.625	6.94	22.9	4.00	6.0
150 x 65	155.6 x 66.7	176	10.4	102	2.7
6 x 3	6.125 x 3.125	6.94	23.5	4.00	6.0
150 x 80	155.6 x 79.4	176	10.7	102	2.7
6 x 4	6.125 x 4.125	6.94	23.5	4.00	5.8
150 x 100	155.6 x 104.8	176	10.7	102	2.7
6 x 5	6.125 x 5.125	6.94	26.2	4.00	5.9
150 x 125	155.6 x 130.2	176	11.9	102	2.7



GROOVED-END COPPER FITTINGS

- C10 90° Elbow
- C11 45° Elbow
- C20 Tee
- C21 Reducing Tee
- C26 Reducing Tee (GR x Cup)
- C50 Concentric Reducer
- C52 Concentric Reducer (GR x Cup)
- C55 Transition Adapter (IPS x CTS)
- C55T Transition Adapter (IPS/FT X CTS/GR)
- C60 End Cap

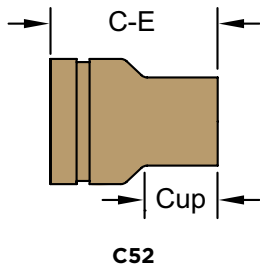


DIMENSIONS

NOMINAL SIZE	C26 RED. TEE (GR X GR X CUP)			WEIGHT
	C-E	C-B	CUP	
in	in	in	in	lb
mm	mm	mm	mm	kg
2 x 2 x 3/4	2.20	1.97	0.75	1.6
50 x 50 x 20	56	50	19	0.7
2 x 2 x 1	2.33	2.20	0.91	1.6
50 x 50 x 25	59	56	23	0.7
2 x 2 x 1-1/4	2.48	2.36	0.97	1.7
50 x 50 x 32	63	60	25	0.8
2 x 2 x 1-1/2	2.56	2.28	1.09	2.0
50 x 50 x 40	65	58	28	0.9
2-1/2 x 2-1/2 x 3/4	2.25	2.25	0.75	1.9
65 x 65 x 20	57	57	19	0.9
2-1/2 x 2-1/2 x 1	2.40	2.41	0.91	2.2
65 x 65 x 25	61	61	23	1.0
2-1/2 x 2-1/2 x 1-1/4	2.52	2.55	0.97	2.3
65 x 65 x 32	64	65	25	1.1
2-1/2 x 2-1/2 x 1-1/2	2.70	2.67	1.09	2.6
65 x 65 x 40	69	68	28	1.2
2-1/2 x 2-1/2 x 2	2.95	2.84	1.34	3.0
65 x 65 x 50	75	72	34	1.4
3 x 3 x 3/4	2.44	2.50	0.75	2.9
80 x 80 x 20	62	64	19	1.3
3 x 3 x 1	2.54	2.80	0.91	2.9
80 x 80 x 25	65	71	23	1.3
3 x 3 x 1-1/4	2.63	2.87	0.97	3.1
80 x 80 x 32	67	73	25	1.4
3 x 3 x 1-1/2	2.85	2.99	1.09	3.3
80 x 80 x 40	72	76	28	1.5
3 x 3 x 2	3.11	3.09	1.34	3.7
80 x 80 x 50	79	78	34	1.7
4 x 4 x 3/4	3.00	2.95	0.75	4.8
100 x 100 x 20	76	75	19	2.2
4 x 4 x 1	3.10	3.23	0.91	5.1
100 x 100 x 25	79	82	23	2.3
4 x 4 x 1-1/4	3.25	3.46	0.97	5.5
100 x 100 x 32	83	88	25	2.5
4 x 4 x 1-1/2	3.35	3.66	1.09	5.6
100 x 100 x 40	85	93	28	2.5
4 x 4 x 2	3.62	3.59	1.34	5.9
100 x 100 x 50	92	91	34	2.7

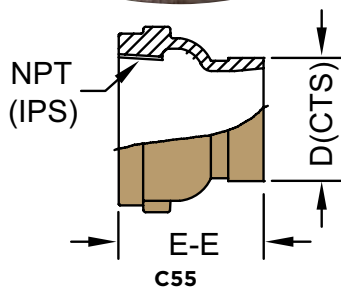
GROOVED-END COPPER FITTINGS

- | | | | |
|-----|-------------------------|------|--------------------------------------|
| C10 | 90° Elbow | C50 | Concentric Reducer |
| C11 | 45° Elbow | C52 | Concentric Reducer (GR x Cup) |
| C20 | Tee | C55 | Transition Adapter (IPS x CTS) |
| C21 | Reducing Tee | C55T | Transition Adapter (IPS/FT X CTS/GR) |
| C26 | Reducing Tee (GR x Cup) | C60 | End Cap |



DIMENSIONS

NOMINAL SIZE	C52 CONCENTRIC REDUCER (GR X CUP)		
	E-E	CUP	WEIGHT
in	in	in	lb
mm	mm	mm	lg
2 x 3/4	---	---	---
50 x 20	---	---	---
2 x 1	2.70	0.91	0.7
50 x 25	69	23	0.3
2 x 1-1/4	3.00	0.97	0.8
50 x 32	76	25	0.4
2 x 1-1/2	2.94	1.09	0.8
50 x 40	75	28	0.4
2-1/2 x 3/4	---	---	---
65 x 20	---	---	---
2-1/2 x 1	3.19	0.91	1.2
65 x 25	81	23	0.5
2-1/2 x 1-1/4	3.19	0.97	1.2
65 x 32	81	25	0.5
2-1/2 x 1-1/2	3.19	1.09	1.2
65 x 40	81	28	0.5
2-1/2 x 2	3.19	1.34	1.2
65 x 50	81	34	0.5
3 x 3/4	---	---	---
80 x 20	---	---	---
3 x 1	---	---	---
80 x 25	---	---	---
3 x 1-1/4	---	---	---
80 x 32	---	---	---
3 x 1-1/2	3.68	1.09	1.7
80 x 40	93	28	0.8
3 x 2	3.94	1.34	1.9
80 x 50	100	34	0.9
4 x 3/4	---	---	---
100 x 20	---	---	---
4 x 1	---	---	---
100 x 25	---	---	---
4 x 1-1/4	---	---	---
100 x 32	---	---	---
4 x 1-1/2	---	---	---
100 x 40	---	---	---
4 x 2	4.56	1.34	3.2
100 x 50	116	34	1.4



The Model C55 Transition Adapter provides for a direct transition between male threaded-end steel pipe (IPS) and grooved-end copper tubing. The C55 is UL classified to NSF/ANSI 61 and NSF/ANSI 372 for use in potable water systems.

DIMENSIONS

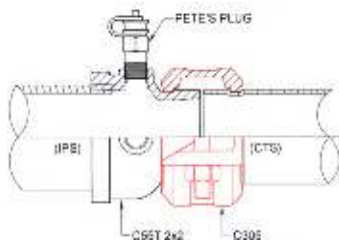
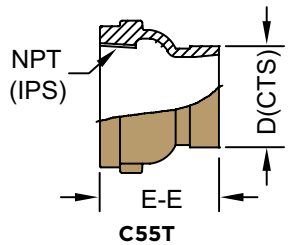
NOMINAL SIZE IPS (NPT) X CTS (GRV)	ACTUAL PIPE O.D.		E-E	WEIGHT
	STEEL PIPE (IPS) O.D.	COPPER TUBING (CTS) D		
in	in	in	in	lb
mm	mm	mm	mm	kg
1-1/2 x 2	1.900	2.125	2.50	1.3
40 x 50	48.3	54.0	63	0.6
2 x 2	2.375	2.125	2.50	1.4
50 x 50	60.3	54.0	63	0.7
2-1/2 x 2-1/2	2.875	2.625	2.75	2.4
65 x 65	73.0	66.7	70	1.1
3 x 3	3.500	3.125	3.00	3.3
80 x 80	88.9	79.4	76	1.5

GROOVED-END COPPER FITTINGS

- C10 90° Elbow
- C11 45° Elbow
- C20 Tee
- C21 Reducing Tee
- C26 Reducing Tee (GR x Cup)
- C50 Concentric Reducer
- C52 Concentric Reducer (GR x Cup)
- C55 Transition Adapter (IPS x CTS)
- C55T Transition Adapter (IPS/FT X CTS/GR)
- C60 End Cap

The Model C55T Transition Adapter with 1/4" taps provides for a direct transition between male threaded-end steel pipe (IPS) and grooved-end copper tubing.

Allows for the installation of gauges or Pete's Plugs for measuring temperature and or pressure.



DIMENSIONS

NOMINAL SIZE IPS (NPT) X CTS (GRV)	STEEL PIPE (IPS) O.D.	COPPER TUBING (CTS)		WEIGHT
		D	E-E	
in	in	in	in	lb
mm	mm	mm	mm	kg
1-1/2 x 2	1.900	2.125	2.50	1.1
40 x 50	48.3	54.0	63	0.5
2 x 2	2.375	2.125	2.50	1.3
50 x 50	60.3	54.0	63	0.6
2-1/2 x 2-1/2	2.875	2.625	2.75	2.0
65 x 65	73.0	66.7	70	0.9
3 x 3"	3.500	3.125	3.00	3.3
80 x 80	88.9	79.4	76	1.5

MATERIAL SPECIFICATIONS

FITTING BODY:

- Cast Bronze conforming to ASTM B584, Alloy C83470, minimum 28-14-15

SURFACE FINISH:

- Grooved ends are cut groove.
- Castings are natural finish.

LISTINGS/APPROVALS

The information provided below is based on the latest listing and approval data at the time of publication. Listings/Approvals are subject to change and/or additions by the approvals agencies. Contact Shurjoint for the performance on other pipes and the latest listings and approvals

FM			
MODEL	DESCRIPTION	NOM. SIZE	PRESSURE
		in mm	psi Bar
C10	90 Elbow	2, 2-1/2, 3, 4, 6 50, 65, 80, 100, 150	200 13.8
C11	45 Elbow	2, 2-1/2, 3, 4, 6 50, 65, 80, 100	200 13.8
C20	Tee	2, 2-1/2, 3, 4, 6 50, 65, 80, 100, 150	200 13.8
C60	Cap	2, 2-1/2, 3, 4, 6 50, 65, 80, 100	200 13.8

UL / CUL			
MODEL	DESCRIPTION	NOM. SIZE	PRESSURE
		in mm	psi Bar
C10	90 Elbow	2, 2-1/2, 3, 4 50, 65, 80, 100	175 12
C11	45 Elbow	2, 2-1/2, 3, 4 50, 65, 80, 100	175 12
C20	Tee	2, 2-1/2, 3, 4, 6 50, 65, 80, 100, 150	175 12
C60	Cap	2, 2-1/2, 3, 4 50, 65, 80, 100	200 13.8
C21	Reducing Tee	2-1/2 x 2; 3 x 2, 2-1/2; 4 x 2, 2-1/2, 3; 5 x 3, 4; 6 x 2-1/2, 3, 4, 5 65x50; 80x50, 65; 100x50, 65, 80; 125x80, 100; 150x65, 80, 100, 125	200 13.8
C26	Reducing Tee	2 x 3/4, 1, 1-1/4, 1-1/2; 2-1/2 x 3/4, 1, 1-1/4, 1-1/2; 3 x 3/4, 1, 1-1/4, 1-1/2; 4 x 3/4, 1, 1-1/4, 1-1/2 50x20, 25, 32, 40; 65x20, 25, 32, 40; 80x20, 25, 32, 40; 100x20, 25, 32, 40;	200 13.8
C50	Concentric Reducer	2-1/2 x 2; 3 x 2, 2-1/2; 4 x 2, 2-1/2, 3; 5 x 3, 4; 6 x 2-1/2, 3, 4, 5 65x50; 80x50, 65; 100x50, 65, 80; 125x80, 100; 150x65, 80, 100, 125	200 13.8
C52	Concentric Reducer	2 x 1, 1-1/4, 1-1/2; 2-1/2 x 1, 1-1/4, 1-1/2, 2; 3 x 1-1/2, 2; 4 x 2 50x25, 32, 40; 65x25, 32, 40, 50; 80x40, 50; 100x50	200 13.8

GROOVED-END COPPER FITTINGS

C10	90° Elbow	C50	Concentric Reducer
C11	45° Elbow	C52	Concentric Reducer (GR x Cup)
C20	Tee	C55	Transition Adapter (IPS x CTS)
C21	Reducing Tee	C55T	Transition Adapter (IPS/FT X CTS/GR)
C26	Reducing Tee (GR x Cup)	C60	End Cap

GENERAL NOTES

- Maximum Working Pressure (CWP) is based on the rated pressure of the C305 coupling. Fittings are tested to ASTM F1476 and or AWWA C606 methods. Fittings listed are for use in connecting roll grooved copper tube to ASTM B88, Types K, L, M, and ASTM B306 DWV. For other pipe schedules or pipe materials, contact Shurjoint for additional information.
- Listed and or Approved Pressures are pressure ratings for fire protection systems, tested and approved by various approval bodies. Please always refer to the latest approval data posted on the Shurjoint website.
- Field Joint Test: For one time only the system may be tested hydrostatically at 1.5 times the maximum working pressure listed (AWWA C606 5.2.3).
- Warning: Piping systems must always be depressurized and drained before attempting disassembly and or removal of any components.
- The 10 Year Limited Warranty applies to manufacturing defects only and does not cover severe service/temperature applications or wear parts.
- Shurjoint reserves the right to change specifications, designs and or standard without notice and without incurring any obligations.